

***Remarks***

Reconsideration and allowance in view of the foregoing amendments and the following remarks are respectfully requested.

By this Amendment, Applicant cancels claims 3 and 25 without prejudice to or disclaimer of the subject matter therein. Applicant seeks to amend claims 1, 4-5, 8-13, 16, 21, and 23. Unless otherwise indicated, the claim amendments are for purposes of clarity and not to overcome any rejection in the Office Action. These changes do not introduce new matter nor create the need for additional consideration and/or search. Upon entry of this Amendment, claims 1-2, 4-5, 8-24, and 26-30 will be pending.

Based on the above amendment and the following remarks, Applicants respectfully request that the Examiner reconsider all outstanding objections and rejections and that they be withdrawn.

**Rejections Under 35 U.S.C. § 102**

Claims 1-5, 8, 16-18, 21, and 26 stand rejected under 35 U.S.C. Sec. 102(e) as being anticipated by Utagawa *et al.* (U.S. Patent 6,529,640). Claim 3 has been cancelled. Applicant traverses the rejection of remaining claims 1-2 and 4-5, 8, 16-18, 21, and 26 because the cited reference fails to disclose, teach, or suggest all of the features of the claimed invention.

For example, the cited reference fails to disclose, teach, or suggest a method or system configured for receiving two or more input pixels and forming two or more **groups of intermediate weighted values**, each group (i) respectively corresponding to one of the two or more input pixels and (ii) including a plurality of weighted values,

**each** weighted value being based upon a **separate** weighting factor, as recited in claims 1, 16, and 21.

The Official Action cites reference characters A27a and A27b of FIG. 3 in the Utagawa reference, asserting that these elements are representative of first and second weighting factors. Applicant respectfully points out, however, that reference characters A27a and A27b are more accurately indicative of interpolation computing sections (see e.g., Utagawa col. 14, line 63). Pixel interpolation is performed within each of the interpolation computing sections A27a and A27b (illustrated in FIG. 3) using the interpolation, or weighting, matrix values from an interpolation matrix (B), as shown in FIG. 6 (Utagawa col. 14, line 63 - col. 15, line 21). In other words, this single interpolation/weighting matrix (B) is used by each of the interpolation computing sections A27a and A27b.

Utagawa fails to disclose, teach, or suggest forming two or more **groups of intermediate weighted values**, each group (i) respectively corresponding to one of the two or more input pixels and (ii) including a plurality of weighted values, **each** weighted value being based upon a **separate** weighting factor, as recited in claims 1, 16, and 21.

By teaching that a single interpolation/weighting matrix (B) is used by each of the interpolation computing sections A27a and A27b, Utagawa, seems to teach forming it's weighted values based upon **the same** weighting factors, as noted by the Examiner on page 2 of the Office Action. Utagawa fails to teach forming two or more weighted values, each weighted value being based upon a separate weighting factor, as taught in the instant invention.

Claims 2, 4-5, 8, 17-18, and 26 respectively depend from claims 1, 16, and 21. Therefore, claims 2, 4-5, 8, 17-18, and 26 are allowable at least for the reasons articulated above in connection with their respective independent claims 1, 16, and 21.

**Claim Rejections Under 35 U.S.C. § 103**

Claims 9-11 and 27-29 stand rejected under 35 U.S.C. Sec. 103(a) as being unpatentable over Utagawa *et al.* (U.S. Patent 6,529,640) in view of Holst "Sampling, Aliasing, and Data fidelity for Electronic Imaging Systems, Communications, and Data Acquisition." Claims 12-15, 19, 20, and 23-25 stand rejected under 35 U.S.C. Sec. 103(a) as being unpatentable over Utagawa *et al.* (U.S. Patent 6,529,640) in view of Westell (EP-503,104 A1). Claim 23 has been cancelled. Claim 22 stands rejected under 35 U.S.C. Sec. 103(a) as being unpatentable over Utagawa *et al.* (U.S. Patent 6,529,640). Finally, claim 30 stands rejected under 35 U.S.C. Sec. 103(a) as being unpatentable over Utagawa *et al.* (U.S. Patent 6,529,640) in view of Brogliatti *et al.* (U.S. 6,564,225). Applicant respectfully traverses these rejections.

As explained above with reference to the Section 102 rejections, Utagawa fails to disclose, teach, or suggest forming two or more **groups of intermediate weighted values**, each group (i) respectively corresponding to one of the two or more input pixels and (ii) including a plurality of weighted values, **each** weighted value being based upon **a separate** weighting factor, as recited in claims 1, 16, and 21. Holst, Westell, and Brogliatti fail to resolve these deficiencies. Accordingly, the asserted combinations of references do not yield the claimed invention and Applicant respectfully requests that the rejections under 35 U.S.C. Sec. 103(a) be withdrawn.

Furthermore, claims 9-15, 19-20, 22-25, and 27-30 depend from claims 1, 16, and 21. Therefore, claims 9-15, 19-20, 22-25, and 27-30 are also allowable at least for the reasons claims 1, 16, and 21 are allowable and for the specific features recited therein, for these features are believed to be non-obvious too.

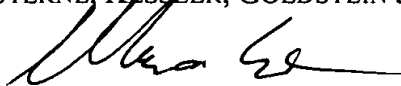
***Conclusion***

All of the stated grounds of objection and rejection have been properly traversed, accommodated, or rendered moot. Applicant therefore respectfully requests that the Examiner reconsider all presently outstanding objections and rejections and that they be withdrawn. Applicant believes that a full and complete reply has been made to the outstanding Office Action and, as such, the present application is in condition for allowance. If the Examiner believes, for any reason, that personal communication will expedite prosecution of this application, the Examiner is invited to telephone the undersigned at the number provided.

Prompt and favorable consideration of this Amendment and Reply is respectfully requested.

Respectfully submitted,

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Date: October 5, 2004

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